

# Igor Ferst

SOFTWARE ENGINEERING · DATA SCIENCE

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## Summary

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Hands-on and user-focused technical leader specializing in building analytical tools for complex large-scale data.

Deep and diverse skill set spanning software development, data science, product management, and engineering management.

Achievements include founding and exiting a startup and publishing original research in computer science.

Domain expertise in telematics, insurance, capital markets, and healthcare.

## Work Experience

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### Azuga

Stockholm, Sweden

SR. DIRECTOR OF ENGINEERING

Feb. 2021 - present

- Lead product development for SafetyIQ, Azuga's fleet risk management product for insurance carriers and fleet owners.
- Oversee globally distributed team of developers: hiring, onboarding, coaching, optimizing processes.
- Primary technical architect for product and data pipeline.
- Work closely with product team to turn feedback and ideas into executable designs.
- Hands-on technical leader: ship code, fix bugs, code reviews and pair programming.

### Mobikit

Columbus (OH), USA

CO-FOUNDER AND CTO

Jan. 2019 - Feb. 2021

- Technical co-founder of a startup building a data analytics platform for vehicle telematics data.
- Raised funding, guided company to product-market fit, and exited successfully.
- Architected product and coded across the entire stack, from data pipeline to UI.
- Grew globally distributed team of developers.
- Executed and supervised ad hoc data science projects.
- Technologies used include: Python (Django/DRF), Javascript (React), SQL (PostgreSQL), AWS (various fully managed as well as serverless services), Docker

### Root Insurance

Columbus (OH), USA

SENIOR SOFTWARE ENGINEER

Sept. 2018 - Jan. 2019

- Worked at a growth-stage insurtech unicorn on using machine learning to improve insurance rate accuracy.
- Implemented support for new rating methodologies and enhancements to the end-user mobile app.
- Python SME for engineering and actuarial teams.
- Technologies used include: Rails, React Native, Ansible, Python

### Aver (now Enlace Health)

Columbus (OH), USA

LEAD SOFTWARE ENGINEER

Sept. 2014 - Feb. 2018

- Led the cross-functional team building Aver's care management and revenue cycle management product for surgical centers.
- Owned product design and technical architecture, maintained product roadmap, implemented APIs and features.
- Grew developer team, overhauled interview process, defined onboarding process and personally onboarded most new developers. Coached two direct reports through promotion to senior engineer.
- Introduced and trained engineering team on new technologies (Docker, Angular), development processes (TDD, code reviews) and agile methodology (user stories, estimation).
- Technologies used include: Python (Flask), Javascript (Angular, Node.js), SQL (PostgreSQL, Redshift), Docker

### InSample

San Francisco (CA), USA

SOFTWARE ENGINEER

Mar. 2014 - Sept. 2014

- First employee at healthcare analytics startup building a cloud-based tool for statistical de-biasing of clinical experiments.
- Designed and built the product prototype together with the CTO.
- Prepared fundraising materials and interviewed prospective customers.
- Technologies used include: Rails, Angular

## Google

Mountain View (CA), USA

### SOFTWARE ENGINEER

Feb. 2013 - Mar. 2014

- Part of conversion tracking team building the tools that Google's customers use to understand the effectiveness of their ad spend.
- Implemented a novel conversion tracking visualization for the AdWords suite of analytics tools.
- Acted as Angular SME during team's transition from legacy front-end framework to Angular.
- Developed enhancements to Google Analytics machine-learning algorithm for attribution modeling.
- Technologies used include: Java, Javascript (Angular), Protobufs

## Palantir Technologies

Palo Alto (CA), USA

### FORWARD DEPLOYED ENGINEER

Jan. 2011 - Jan. 2013

- Embedded with a prominent global macro hedge fund, the largest customer for Palantir's capital markets analytics platform.
- Product owner and developer for platform's visualization and reporting features.
- Trained users and gathered product requirements.

## Skills

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**General** Software engineering, product management, data science, technical leadership

**Languages** Python, Javascript, SQL

**Frameworks** Django, React

**Infrastructure** AWS, Docker, PostgreSQL, Github

**Technical Expertise** Statistics, optimization, machine learning, data modeling, graph algorithms, quantum computing

## Education

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### Cornell University

Ithaca (NY), USA

#### M.S. IN COMPUTER SCIENCE

- PhD candidate in Applied Mathematics supported by a US National Science Foundation Graduate Research Fellowship.
- Published original research in algorithms and optimization: <https://tinyurl.com/ycheu4us>

### University of Waterloo

Waterloo (Ontario), Canada

#### M.MATH. IN COMBINATORICS & OPTIMIZATION

### University of Chicago

Chicago (IL), USA

#### B.S. IN MATHEMATICS WITH HONORS

## Volunteering

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### Odesa Peace Fund

Stockholm, Sweden

- General IT support.

### Tech Elevator

Columbus (OH), USA

- Panelist and student mentor for the Columbus chapter of a software development bootcamp.

### United Schools Network

Columbus (OH), USA

- Designed and taught a three month after-school programming course for middle-school students.
- Developed spreadsheet-based operational tools for school administrators.

### Columbus Arts Festival

Columbus (OH), USA

- Member of organizing committee for 2016 and 2017 festivals.
- Built mobile-friendly interactive festival map: <https://github.com/igorferst/columbus-arts-festival-map>